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Phosgene mfr. using active charcoal catalyst - where chlorine and carbon monoxide are passed into reaction chamber so that gas does not flow through catalyst layer

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Number of Countries: 001 Number of Patents: 001

Patent Family:

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Priority Applications (No Type Date): JP 70119007 A 19701226

Abstract (Basic): JP 80014044 B

Method comprises fixing active charcoal catalyst covered with wire screen in a reaction chamber having sufficient capacity, and feeding Cl₂ and CO into the chamber so as not to allow the reaction gas to flow through the catalyst layer.

The method minimises heat build-up in the catalyst layer, thereby giving high purity phosgene.

The catalyst can be located at any place in the reaction chamber, e.g. on the wall or along the centre axis of a cylindrical vessel, at the bottom of a rectangular vessel, or suspended in the space by suitable means. To obtain uniform temp. distribution in the catalyst, the catalyst may be cooled by cooling pipe or jacket. The feed rate of reaction gas is 600000 cc/hr. to 5000000cc/hr. depending on the capacity of reaction chamber and surface area of the catalyst layer.

Title Terms: PHOSGENE; MANUFACTURE; ACTIVE; CHARCOAL; CATALYST; CHLORINE; CARBON; MONO; OXIDE; PASS; REACT; CHAMBER; SO; GAS; FLOW; THROUGH; CATALYST; LAYER

Derwent Class: E36

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File Segment: CPI